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TRW

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29 November 1993
DT335.93

Mr. Philip B. Chandler
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91754-2156

Dear Mr. Chandler:

On November 15, 1993, TRW attended a meeting at the Regional Water Quality Control Board (RWQCB) to discuss the results of the soil remediation at the Monadnock Company facility in City of Industry. The meeting notes are attached for your files.

TRW has proceeded with the requested drilling. We anticipate filing a closure report with your office in mid-December 1993. The closure report will contain the other requested actions.

If you have any questions, please feel free to call me at 310-813-2722.

Respectfully,

Debbie Takashima

Debbie Takashima
Senior Environmental Engineer

cc: C. Christmann, RWQCB
R. Kaumeyer, RWQCB
J. P. Kwan, TRW

MEETING NOTES

DATE: November 15, 1993

PLACE: Offices of California Regional Water Quality Control Board - Los Angeles Region (RWQCB)

PURPOSE: Closure of Soil Remediation at Monadnock Company Facility in City of Industry, California

ATTENDEES: Phil Chandler, RWQCB
Doug Pennington, TRW Inc.
Debbie Takashima, TRW Inc.
Steve Mulligan, ID Environmental Associates, Inc. (IDEA)

The meeting was held to discuss the results of soil remediation conducted at the Monadnock Company facility in City of Industry, California. In addition, concurrence was requested from the RWQCB that soil remediation was complete.

The following items were presented at the meeting:

- Results of soil matrix sampling and analysis conducted at the site during the Phase 2B soil investigation conducted in July 1991
- Results of the soil gas surveys conducted in August 1990 and June 1991
- Results of soil gas surveys conducted in March 1993, June 1993, July 1993, and October 1993

IDEA stated that the results of soil matrix sampling and analysis conducted in July 1991 and the soil gas surveys conducted in August 1990 and June 1991 resulted in the following conclusions:

- The soil matrix analytical data obtained in July 1991 indicated that minute concentrations of trichloroethene (TCE) and tetrachloroethene (PCE) [less than 16 micrograms of contaminant per kilogram of soil (µg/kg)] were present in subsurface soils at the
following areas of the site:

- southeast corner of manufacturing building
- area south of southern loading dock
- southwest corner of manufacturing building
- area adjacent to groundwater monitoring well MW-3

o The soil matrix analytical data also indicated that TCE, PCE, cis-1,2-dichloroethene, and carbon tetrachloride were present in subsurface soils beneath the degreaser area. The concentrations of these compounds ranged from less than 10 µg/kg to 1,100 µg/kg.

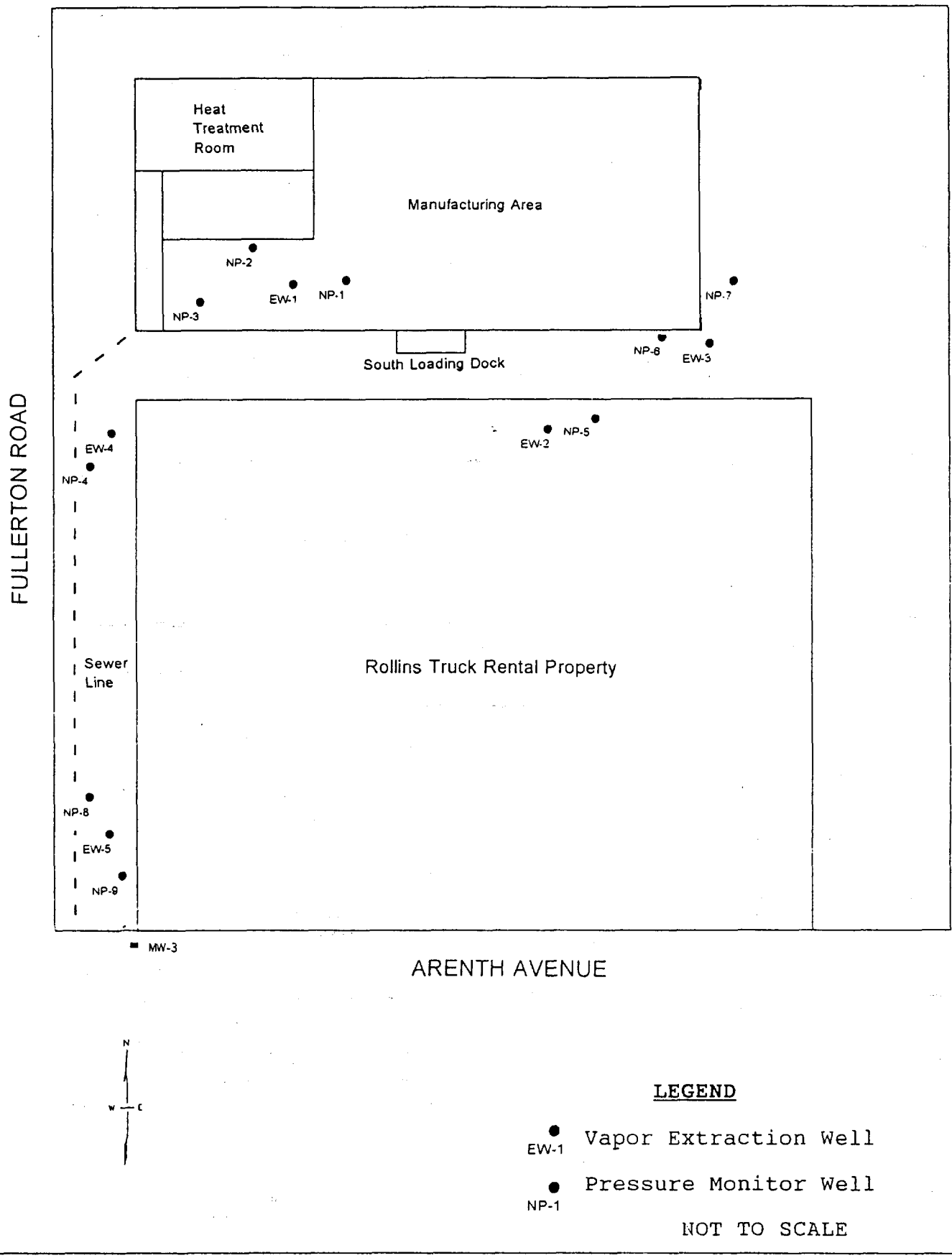
o Soil gas survey data obtained in August 1990 and June 1991 indicated that 1,1,1-trichloroethane (1,1,1-TCA), TCE, and PCE were present in soil gas beneath the Monadnock Company facility. The concentrations of these compounds ranged from less than 10 parts per billion (ppb) to 50,000 ppb.

Soil remediation using a vapor extraction system (VES) was undertaken at the site from April 1993 to August 1993: The results of the soil remediation, documented using soil gas surveys conducted in March 1993, June 1993, July 1993, and October 1993, were as follows:

o Allowing for rebound effects, the concentrations of chlorinated volatile organic compounds (VOCs) in soil gas beneath the following areas were below the detection limit [detection limit of 1 microgram per liter (µg/l)]:

- southeast corner of manufacturing building
- area south of southern loading dock
- southwest corner of manufacturing building
- area adjacent to groundwater monitoring well MW-3

o Allowing for rebound effects, the concentration of chlorinated VOCs, other than PCE and TCE, were below the detection limit (detection limit of 1 µg/l) in the degreaser area. TCE was detected in Probe NP-2 (see Figure 1) at a depth of 15 feet below grade at a concentration of 1.3 µg/l; TCE was not detected in the other probes within the degreaser area. PCE was detected in Probes NP-1, NP-2, and NP-3 within the degreaser area; PCE was detected at concentrations ranging up to 6.9 µg/l.



LOCATIONS OF EXTRACTION WELLS AND PRESSURE MONITOR WELLS

Project Name: TRW-Monadnock	Project Number: 9104M	Figure Number: 1

Based on the above-listed results, TRW asked concurrence from the RWQCB that soil remediation was complete. Mr. Chandler concurred that soil remediation was complete, with the following notations:

- One boring must be drilled in the degreaser area, from which soil samples must be collected. The boring must be located between Borings B-14 and B-17 drilled during the soil investigation conducted in July 1991. The boring will extend to a maximum depth of 15 feet below grade.

- A closure report documenting the results of the soil remediation program must be prepared and submitted to the RWQCB. The report must include the results of the previously-described soil drilling program.

- The tables to be included in the closure report listing the analytical data from the soil gas surveys conducted in March 1993, June 1993, July 1993, and October 1993 will be revised to clearly indicate when the soil gas surveys were conducted.

- Data collected as part of the South Coast Air Quality Management District (SCAQMD) Permit To Construct/Operate for the VES will be included in the closure report. These data include weekly VES emissions data and monthly VES performance data.

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TRW Inc.